

wherein said genes produce enzymes capable of making S-methylmalonyl CoA required for biosynthesis of a polyketide produced by a modular polyketide synthase (PKS) produced by a PKS gene or genes in said host cell,

wherein said host cell, in the absence of said expression vectors, is unable to make said polyketide due to lacking all or a part of a biosynthetic pathway required to produce S-methylmalonyl CoA.

Please cancel claims 2-16.

17. (Amended) The host cell of Claim 1 in media that contains hydroxocobalamin.

Please cancel claims 18-23.

24. (Amended) An *E. coli* host cell that expresses a methylmalonyl CoA mutase gene selected from the group consisting of a *Propionibacterium shermanii* methylmalonyl CoA mutase gene and a *Streptomyces cinnamomensis* methylmalonyl CoA mutase gene,

a *Propionibacterium shermanii* epimerase gene, wherein said genes produce enzymes capable of making S-methylmalonyl CoA, and a modular polyketide synthase (PKS) gene.

Please cancel claim 25.

Please add the following new claims 26-40.

26. (New) The host cell of Claim 1 that comprises two expression vectors, one of which is integrated into chromosomal DNA of said cell.

27. (New) The host cell of Claim 1 that comprises two expression vectors, one of which is a plasmid.

28. (New) The host cell of Claim 1, wherein said methylmalonyl CoA mutase gene is the *Propionibacterium shermanii* methylmalonyl CoA mutase gene mutA and mutB.

29. (New) The host cell of Claim 1, wherein said methylmalonyl CoA mutase gene is the *Streptomyces cinnamonensis* methylmalonyl CoA mutase gene mutA and mutB.

30. (New) The host cell of Claim 1, wherein one or more of said genes is under control of a promoter from an *E. coli* gene or from a gene of an *E. coli* phage.

31. (New) The host cell of Claim 1, wherein said PKS gene is a gene that encodes a 6-deoxyerythronolide B (6-dEB) synthase protein.

32. (New) The host cell of Claim 17, wherein said methylmalonyl CoA mutase gene is the *Propionibacterium shermanii* methylmalonyl CoA mutase gene mutA and mutB.

33. (New) The host cell of Claim 17, wherein said methylmalonyl CoA mutase gene is the *Streptomyces cinnamonensis* methylmalonyl CoA mutase gene mutA and mutB.

34. (New) The host cell of Claim 17, wherein one or more of said genes is under control of a promoter from an *E. coli* gene or from a gene of an *E. coli* phage.

35. (New) The host cell of Claim 17, wherein said PKS gene is a gene that encodes a 6-dEB synthase protein.

36. (New) The host cell of Claim 24, wherein said methylmalonyl CoA mutase gene is the *Propionibacterium shermanii* methylmalonyl CoA mutase gene mutA and mutB.

37. (New) The host cell of Claim 24, wherein said methylmalonyl CoA mutase gene is the *Streptomyces cinnamonensis* methylmalonyl CoA mutase gene mutA and mutB.

38. (New) The host cell of Claim 24, wherein one or more of said genes is under control of a promoter from an *E. coli* gene or from a gene of an *E. coli* phage.

39. (New) The host cell of Claim 24, wherein said PKS gene is a gene that encodes a 6-dEB synthase protein.

40. (New) A method for producing a polyketide, which method comprises culturing the host cell of Claim 38 under conditions such that said modular PKS gene is expressed to produce a functional PKS, said S-methylmalonyl CoA is produced, and said functional PKS synthesizes a polyketide that incorporates said S-methylmalonyl CoA.

In the Abstract:

Please replace the Abstract of the Disclosure with a revised version of the Abstract attached herewith.